

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/04101

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> H05K13/02

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H05K13/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Jitsuyo Shinan Koho 1926-1996 Jitsuyo Shinan Toroku Koho 1996-2003  
 Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2001-15995 A (Matsushita Electric Industrial Co., Ltd.), 03 August, 2001 (03.08.01), (Family: none)	1-4, 8-21
X	WO 99/62314 A2 (SIMENS AG.), 02 December, 1999 (02.12.99), & JP 2002-517104 A	1-7, 20, 21
X	JP 8-139500 A (TDK Corp.), 31 May, 1996 (31.05.96); (Family: none)	1, 2, 13-21

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
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 "&" document member of the same patent family

Date of the actual completion of the international search  
20 May, 2003 (20.05.03)

Date of mailing of the international search report  
03 June, 2003 (03.06.03),

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.